

## Message

**From:** Nordine, John [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=6F082FB004BA4D818FE3276686C84C63-JNORDINE]  
**Sent:** 8/25/2016 3:49:06 PM  
**To:** Gerry Ruopp [gerry.ruopp@centralwire.com]  
**CC:** Jack Thorsen [jack@autumnwoodesh.com]; Bob Kay [rtkay@usgs.gov]  
**Subject:** Techalloy, Union, IL Plume Migration

Mr. Ruopp,

Thank you for the Distance Drawdown Calculation for the **Ex. 6 Personal Privacy (PP)** Well. With the information from the Distance Drawdown Calculation for the **Ex. 6 Personal Privacy (PP)** Well, calculate time of travel from the leading edge of the plume to the **Ex. 6 Personal Privacy (PP)** Well assuming the well is not pumped and there is no attenuation of the plume, and perform a separate calculation of time of travel for the plume if the well is pumped according to its typical weekly pumping regimen. This will provide us with a reasonable time frame that the **Ex. 6 Personal Privacy (PP)** well may be affected by the plume.

Also, please verify the distance from the **Ex. 6 Personal Privacy (PP)** well to the GP-27. I double checked the distance on Google Earth and I get a distance to from the Nursery well to GP-27 of about 780 ft as well as to GP-23, not the 845 ft Autumnwood claims. It has minimal impact on the drawdown calculation, but will have some impact on the time of travel calculation. If you have any questions please contact me.

Respectfully,

John Nordine, CPG, LPG  
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"The great end of education is to discipline rather than finish the mind; to train it to use of its own powers rather than to fill it with the accumulation of others." Tryon Edwards

"Don't interfere with anything in the Constitution. That must be maintained, for it is the only safeguard of our liberties" Abraham Lincoln

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